



CAPACITOR SPECIFICATION

PART NUMBER: **31150**

PARAMETER	VALUE	UNITS	Q.A.	METHOD
CAPACITANCE:	0.5	uF	100%	120 Hz, R.T.*
TOLERANCE:	± 10	%		
RATED VOLTAGE:	30.0	kV		
TEST VOLTAGE:	35.0	kV	100%	60 sec HIPOT
RATED ENERGY:	225	Joules		
RATED VOLTAGE REVERSAL:	20	%		
MAX. VOLTAGE REVERSAL:	80	%		
MAX. PEAK CURRENT:	25	kA		
MAX. CONTINUOUS REP RATE:	1	pps		
MAX. RMS CURRENT	25	A		
MAX. OPERATING TEMP.	40	°C		
MIN. OPERATING TEMP.	-10	°C		
DESIGN LIFE AT RATED:	1.0E+05	charge / discharge cycles		
DC LIFE:	30,000	hours		
RELIABILITY AT LIFE:	90	%		
MAX. DISSIPATION FACTOR	0.50	%	100%	120 Hz, R.T.*
APPROX. INDUCTANCE	25	nH	SAMPLE	STANDING WAVE
MIN. INSULATION RESISTANCE	1000	Mohm-uF	SAMPLE	DECAY Vr / R.T.* / 120s / 120s
CASE STYLE:	Single-Ended Plastic Case (Type "S")			
BUSHING:	50 kV "S" Header			
TERMINALS:	2 ea RAILS with 2 ea 10-32 UNF-2B Threaded Holes			
DIMENSIONS:	2.3 x 5.9 x 9.8	inches		
	58 x 150 x 249	mm		
WEIGHT:	6.5	lbs		
	3.0	kg		

NOTES:

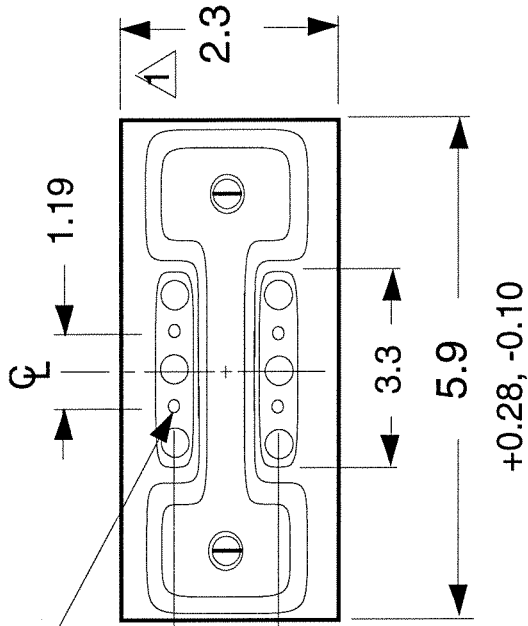
NOTE 1: LEAK TEST: 100 % test and inspection

NOTE 2: CO IMPREGNANT (non-PCB)

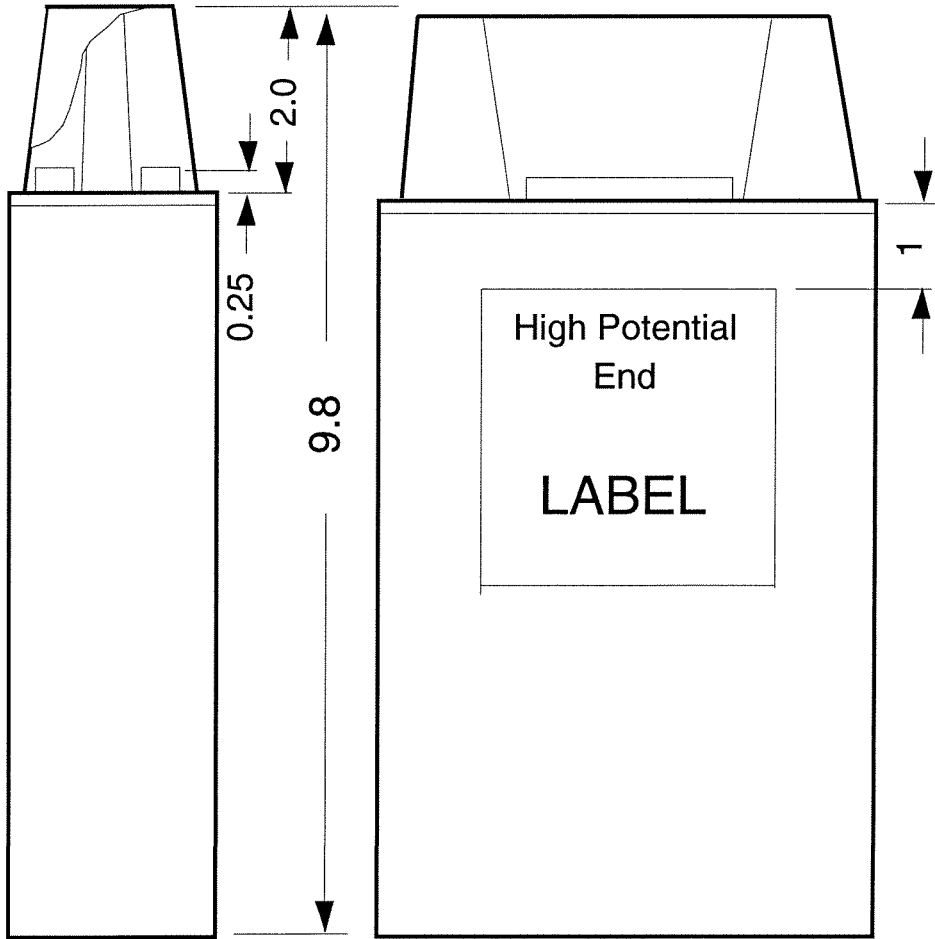
*R.T. = room temperature

	SIZE	FSCM	DRAWING NUMBER	REV
	A	58307	31150	LTR M
			SHEET	2

10-32 UNC x 0.25
4 PLCS



1 0.3 MAXIMUM
ALLOWABLE BULGE



<p>GENERAL ATOMICS ELECTRONIC SYSTEMS INC Energy Products 4949 GREENCRAIG LANE SAN DIEGO CA. 92123</p>		<p>OUTLINE DRAWING PART No. 31150 0.50 uF ± 10 %, 30.0 kV</p>	
<p>CONTRACT NUMBER</p>	<p>DATE</p>	<p>PREPARED</p>	<p>CHECKED</p>
<p>DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .X ± .1 .XX ± .03 .XXX ± .010</p>	<p>PROJECT MANAGER Robert Cooper</p>	<p>ENGINEER</p>	<p>DESIGN ACTIVITY APPROVAL</p>
<p>NEXT ASSY APPLICATION</p>	<p>APPROVED</p>	<p>CHECKED BY J Bates</p>	<p>GOVERNMENT ACTIVITY APPROVAL</p>
<p>SIZE A</p>	<p>FSCM 58307</p>	<p>DRAWING NUMBER 31150</p>	<p>REV LTR M</p>
<p>SCALE NONE</p>	<p>DATE 10/07/99</p>	<p>PAGE 9 OF 9</p>	